

## Wireless @ Johns Hopkins

### 'eduroam' Configuration Guide:

### Windows 8

Johns Hopkins has joined the eduroam (education roaming) federation. Membership allows campus community members at any participating institution to use wireless network services at any other participating institution with the simplicity and convenience of providing the login credentials issued to them by their home institution.

This means that Johns Hopkins students, faculty, and staff may visit member institutions domestically and abroad and use their JHED credentials to log into wireless. Additionally, anyone with a valid JHED\_ID may access the wireless network here at Johns Hopkins. At JHU, the level of service provided by eduroam will be the same as the level of service provided by the hopkins wireless network.

You will need to use your credentials in this format:

Login: JHED\_ID@jhu.edu  
Password: JHED password

To connect to eduroam at a **visiting institution** you will need the following information:

SSID (Network Name): eduroam  
TCP/IP: DHCP  
EAP Type: PEAP  
Network Authentication: <**visited institution authentication type**>  
Data Encryption: <**visited institution encryption type**>  
Authentication Method/Protocol: MSCHAP-v2  
Trusted Root Certification Authorities: InCommon/AddTrust External Root CA  
Server name: freeradiuspilot.win.ad.jhu.edu

To connect to eduroam at **Johns Hopkins** you will need the following information:

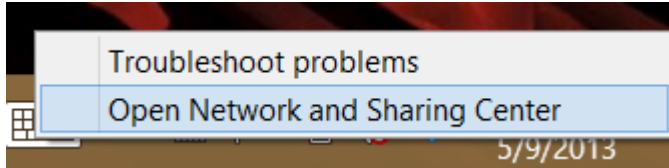
SSID (Network Name): eduroam  
TCP/IP: DHCP  
EAP Type: PEAP  
Network Authentication: WPA2  
Data Encryption: AES  
Authentication Method/Protocol: MSCHAP-v2  
Trusted Root Certification Authorities: InCommon/AddTrust External Root CA  
Server name: freeradiuspilot.win.ad.jhu.edu

Please see below for illustrated instructions.

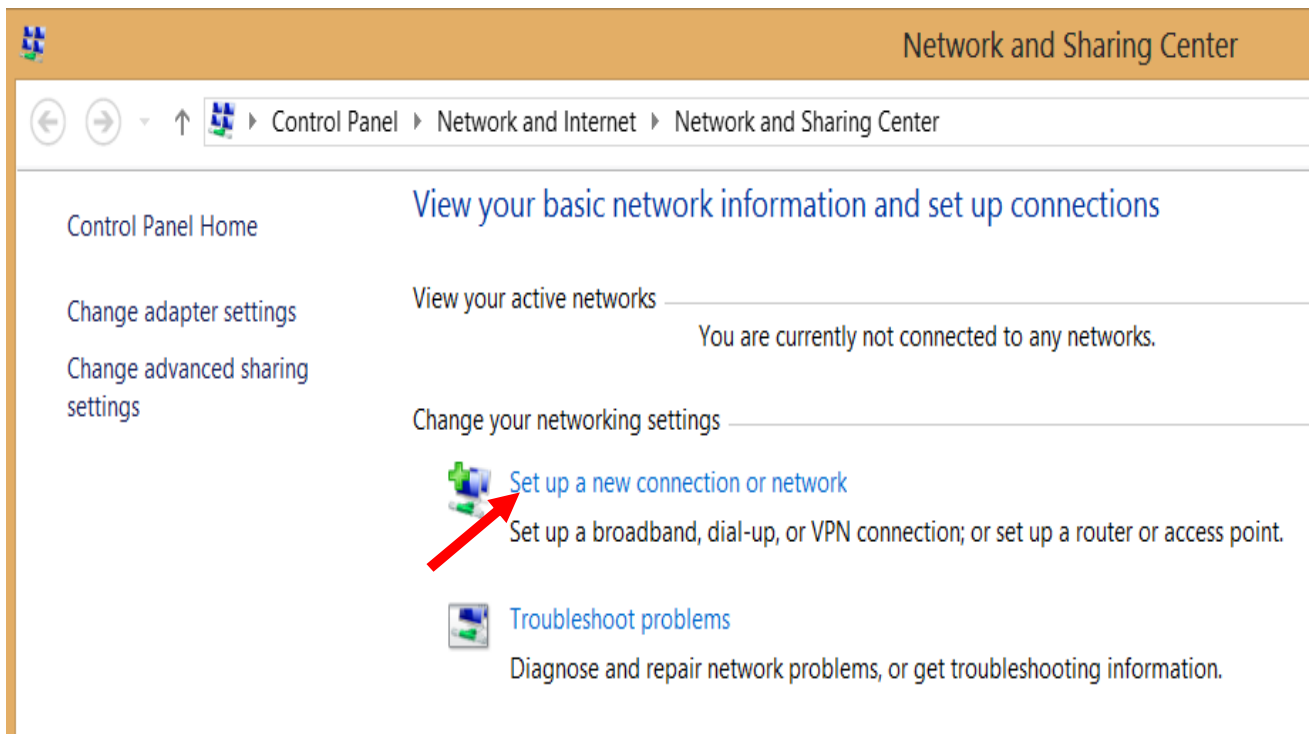
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### Connecting to “eduroam” at JHU:

**Step 1:** Right click on the wireless icon (or network connection icon) at the bottom right of the screen and select **Open Network and Sharing Center**.

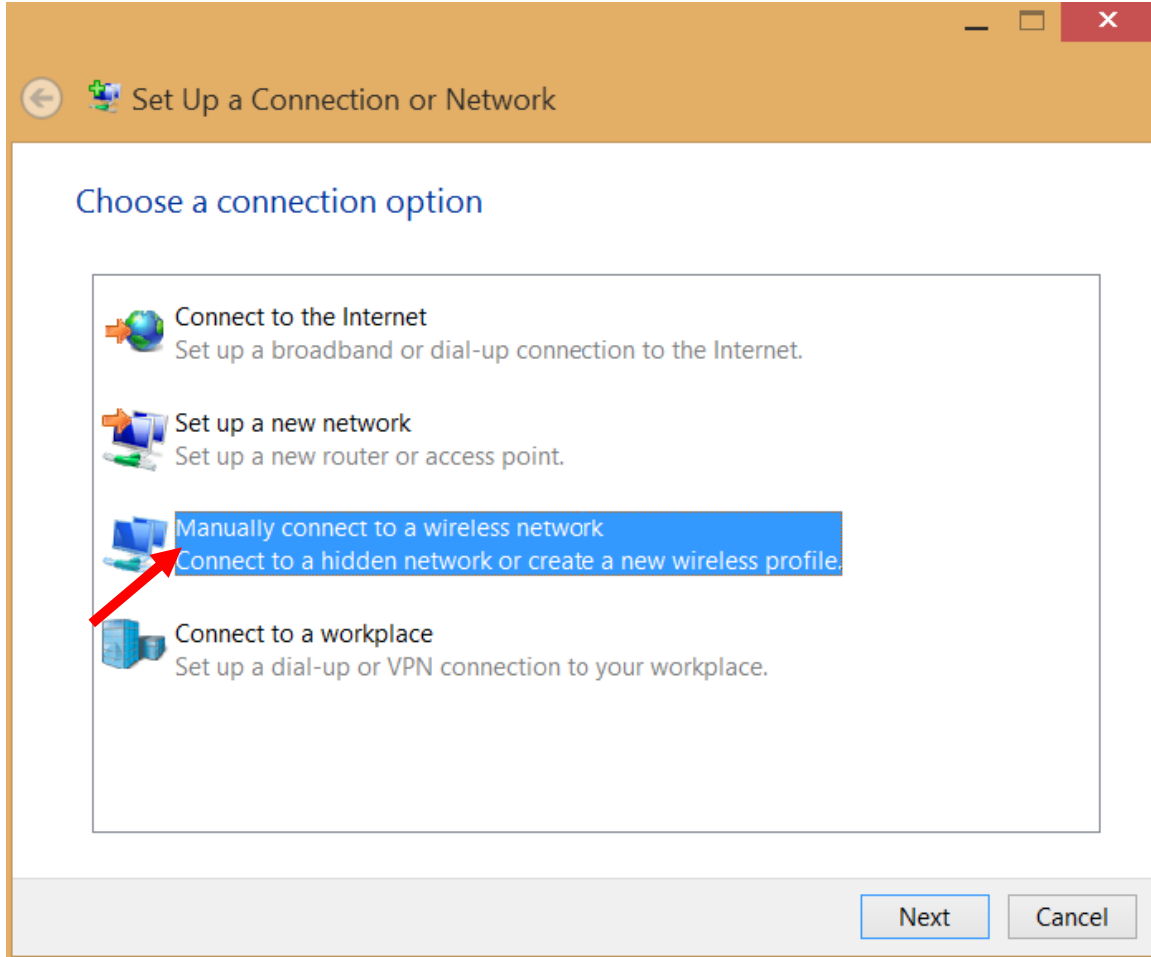


**Step 2:** Select **Set up a new connection or network**.



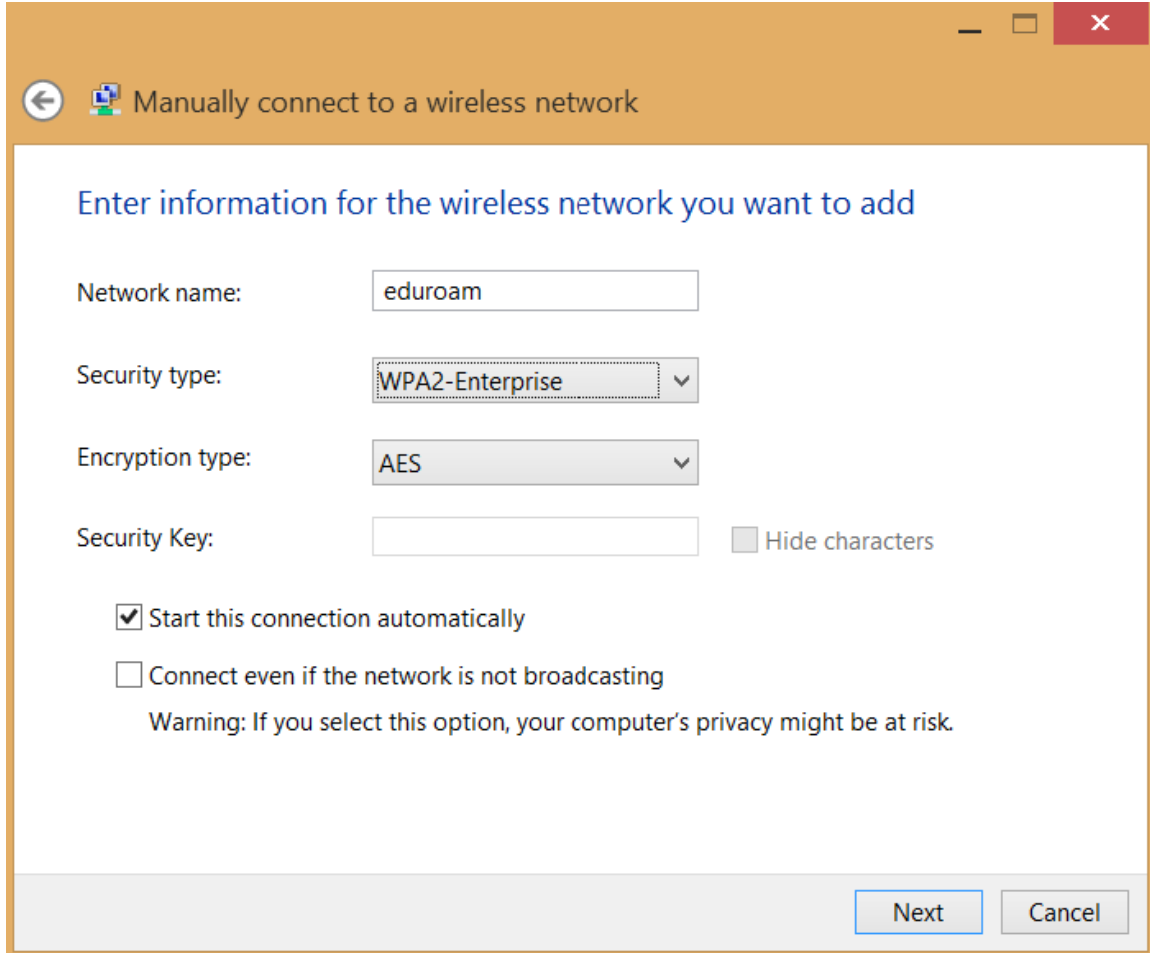
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**Step 3:** Select **Manually connect to a wireless network**.



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**Step 4:** Enter the following information:



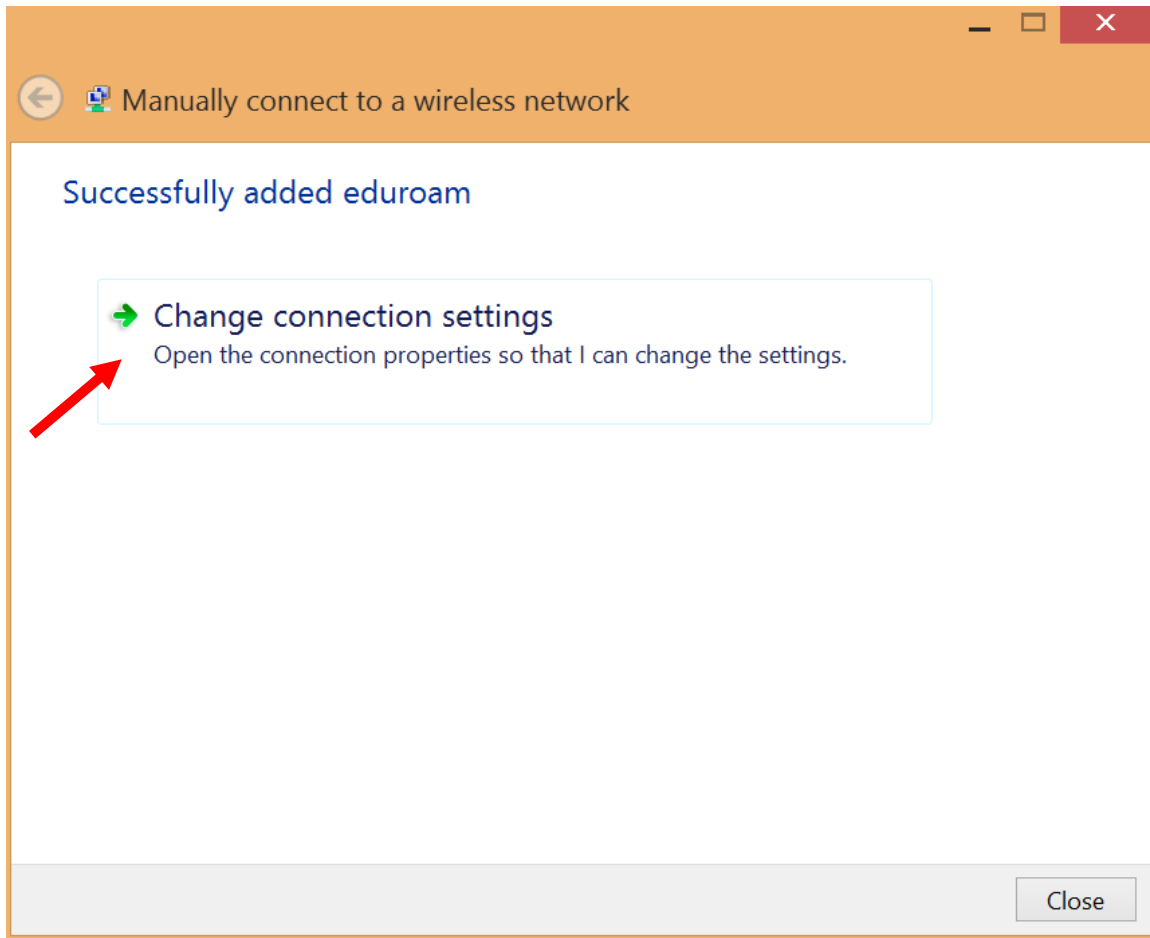
The screenshot shows a Windows dialog box titled "Manually connect to a wireless network". The dialog box has a title bar with standard window controls (minimize, maximize, close) and a back arrow icon. The main content area is titled "Enter information for the wireless network you want to add". It contains the following fields and options:

- Network name:** A text input field containing "eduroam".
- Security type:** A dropdown menu with "WPA2-Enterprise" selected.
- Encryption type:** A dropdown menu with "AES" selected.
- Security Key:** A text input field, currently empty, with a "Hide characters" checkbox to its right.
- Start this connection automatically
- Connect even if the network is not broadcasting
- Warning: If you select this option, your computer's privacy might be at risk.

At the bottom right of the dialog box, there are two buttons: "Next" and "Cancel".

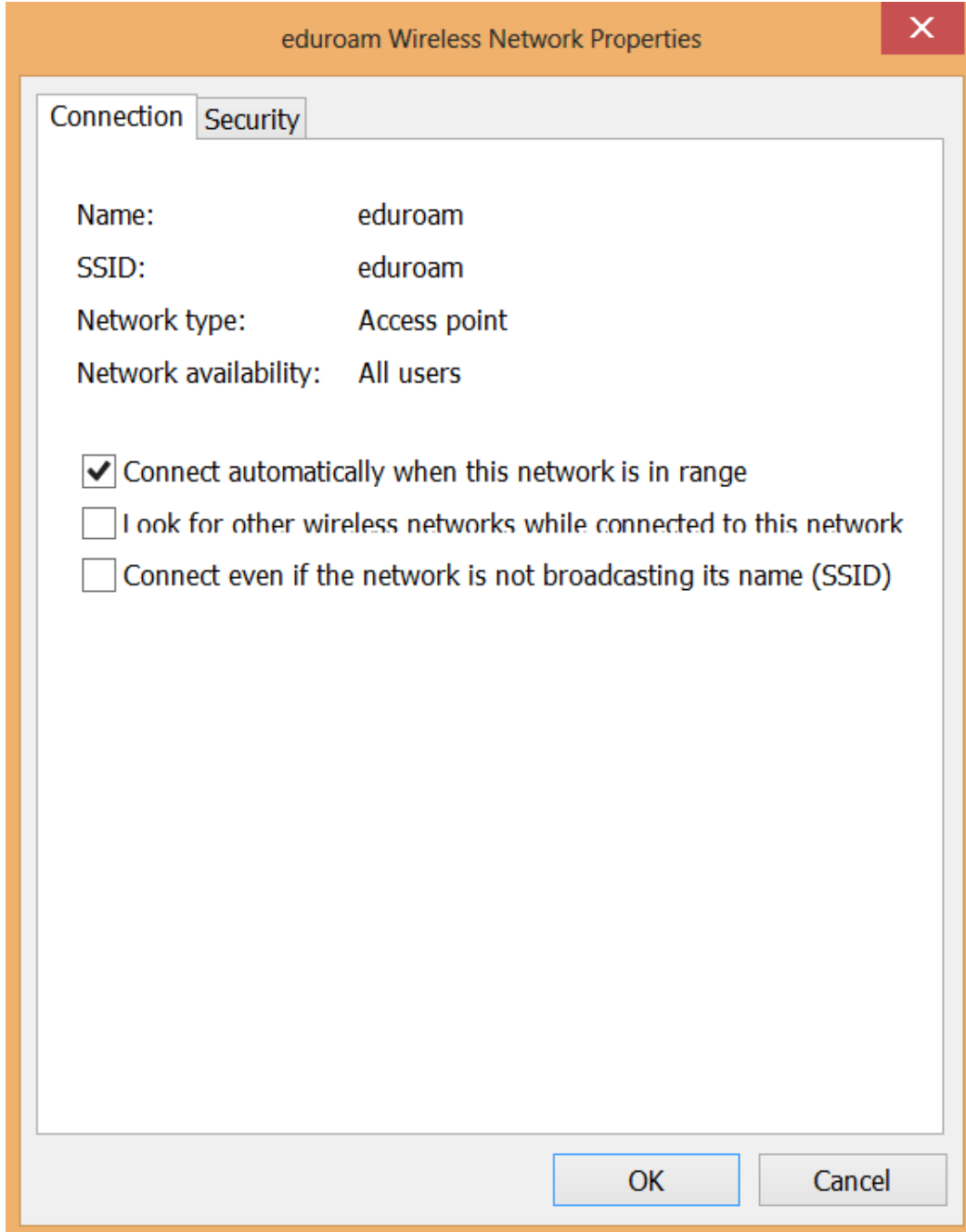
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**Step 5:** Select **Change connection settings**.



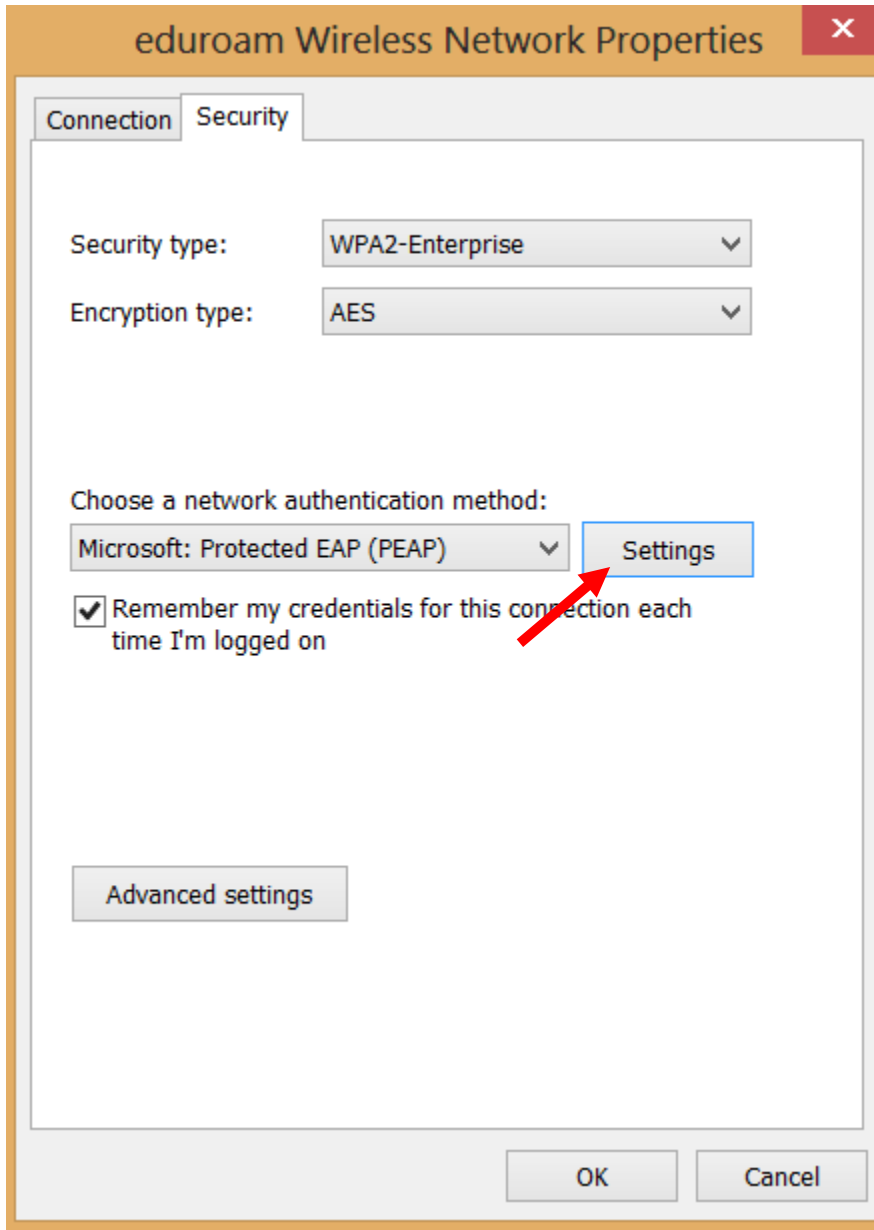
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**Step 6:** Confirm the following selections, then click on **Security**.



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**Step 7:** Confirm the following selections, then click on **Settings**.



The screenshot shows the 'eduroam Wireless Network Properties' dialog box with the 'Security' tab selected. The 'Security type' is set to 'WPA2-Enterprise' and the 'Encryption type' is set to 'AES'. Under 'Choose a network authentication method', 'Microsoft: Protected EAP (PEAP)' is selected, and the 'Settings' button is highlighted with a red arrow. The checkbox 'Remember my credentials for this connection each time I'm logged on' is checked. An 'Advanced settings' button is located at the bottom left. At the bottom right, there are 'OK' and 'Cancel' buttons.

eduroam Wireless Network Properties

Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP) Settings

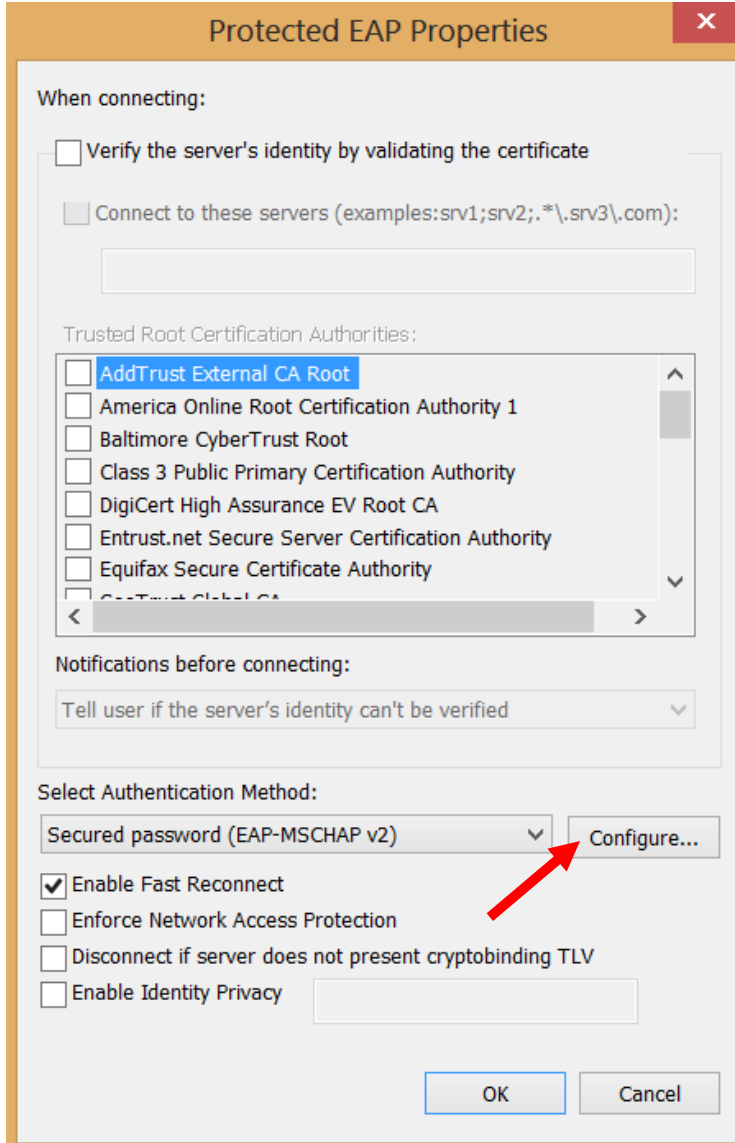
Remember my credentials for this connection each time I'm logged on

Advanced settings

OK Cancel

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**Step 8:** Confirm selections below, then click **Configure**.



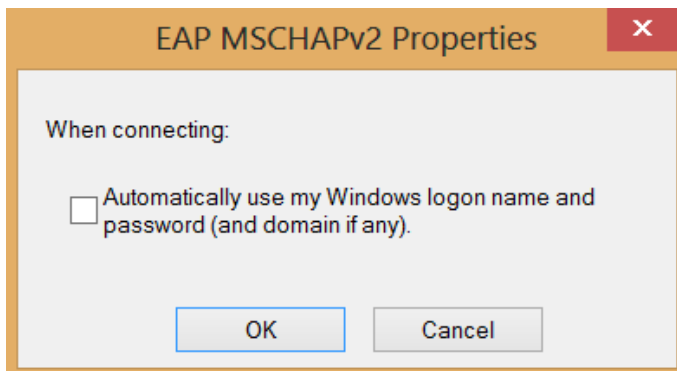
The image shows the "Protected EAP Properties" dialog box. It has a title bar with a close button (X). The main content is organized into several sections:

- When connecting:**
  - Verify the server's identity by validating the certificate
  - Connect to these servers (examples: srv1;srv2;.\*\,srv3\,com):
  - Trusted Root Certification Authorities:**
    - AddTrust External CA Root
    - America Online Root Certification Authority 1
    - Baltimore CyberTrust Root
    - Class 3 Public Primary Certification Authority
    - DigiCert High Assurance EV Root CA
    - Entrust.net Secure Server Certification Authority
    - Equifax Secure Certificate Authority
    - GoDaddy Class 2 Certification Authority
- Notifications before connecting:**
  - Tell user if the server's identity can't be verified

- Select Authentication Method:**
- Secured password (EAP-MSCHAP v2) [v]
- Enable Fast Reconnect
- Enforce Network Access Protection
- Disconnect if server does not present cryptobinding TLV
- Enable Identity Privacy

At the bottom are "OK" and "Cancel" buttons. A red arrow points to the "Configure..." button next to the authentication method dropdown.

**Step 9:** Make sure the box is unchecked. Click **OK**.



The image shows the "EAP MSCHAPv2 Properties" dialog box. It has a title bar with a close button (X). The main content is:

- When connecting:**
  - Automatically use my Windows logon name and password (and domain if any).

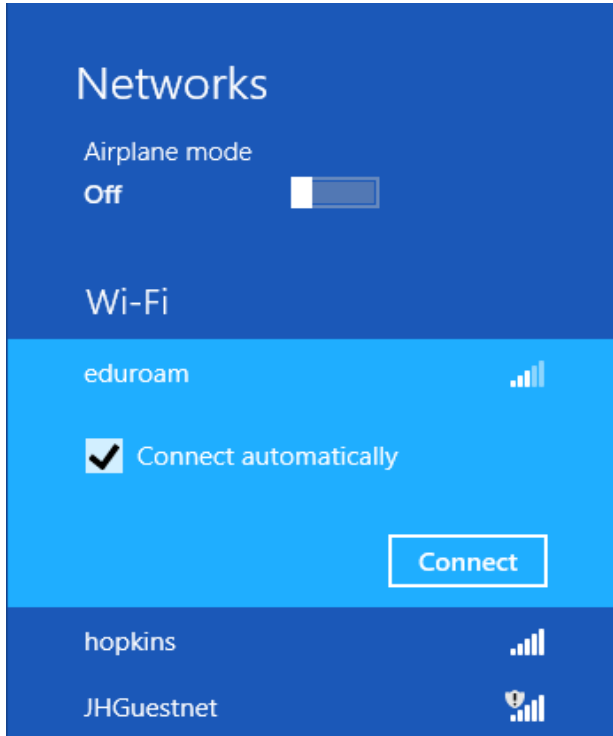
At the bottom are "OK" and "Cancel" buttons.



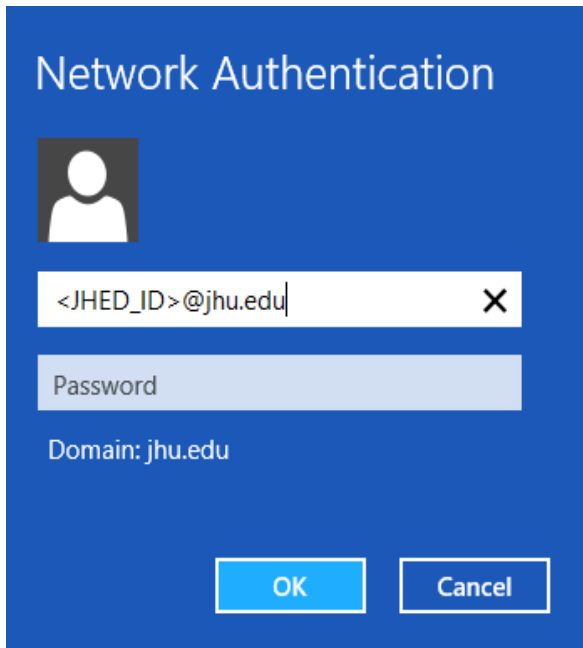
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Click through the remaining screens to return to the desktop.

**Step 10:** From the bottom right corner, click on the wireless icon, select **eduroam** and click **Connect**.

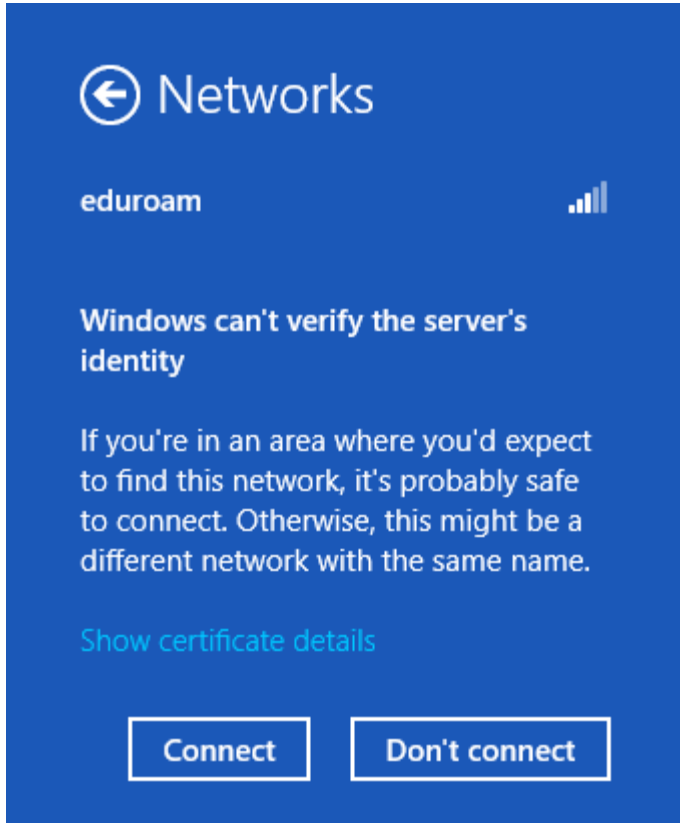


**Step 11:** The following box should appear. Enter your JHED credentials.



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**Step 12:** You will see the following security pop-up. Click **Connect**.



You are now on the network!

### Where do I get additional help?

#### Technical Assistance (walk-up)

Garland Hall Basement

Monday - Friday 8:00 AM - 4:30PM

#### Contact the Support Center at:

(410)955-HELP [(410)955-4357]	Johns Hopkins East Baltimore
(410)516-HELP [(410)516-4357]	Johns Hopkins Homewood Campus
(443)997-HELP [(443)997-4357]	Johns Hopkins Mount Washington